

Figure 1

**Amino Acid Sequence of Duck Hepatitis B Core Protein**

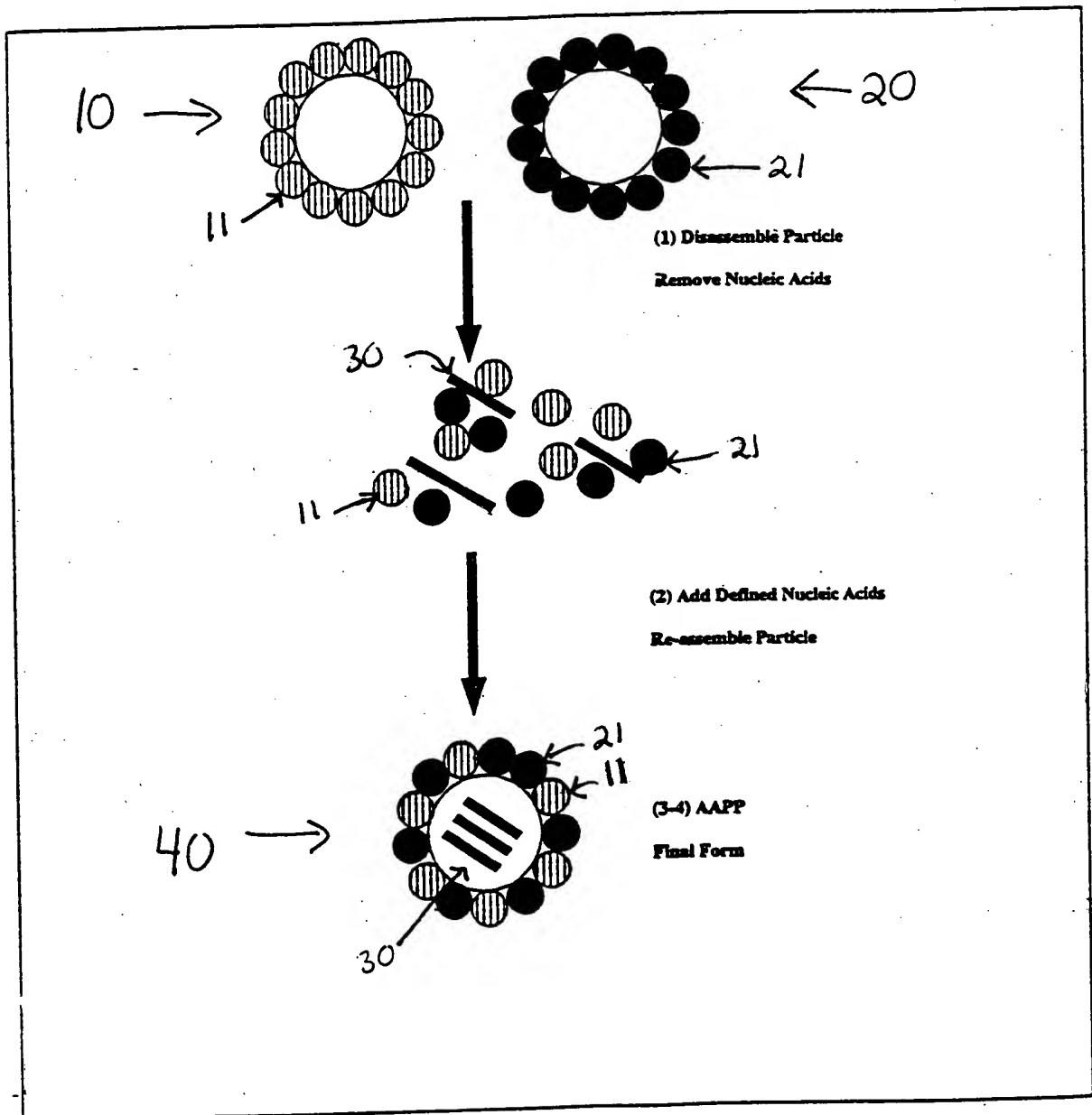
<sup>1</sup>MDINASRALANVYDL<sup>25</sup>PDDFFPKIDDLVRDAKDALEPYWR  
<sup>50</sup>SDSIKKHVLIA<sup>75</sup>THFVDLIEDFWQTQGMHEIAEALRAVI  
<sup>100</sup>PPTTTPVPAGYLIQHEEAEEIPLGDLFKHQEERIVSFQP  
<sup>125</sup>DYPITARIHAHLKAYAKINEESLDRARRLL<sup>150</sup>WHYNCLLW  
<sup>175</sup>GEANVTNYISRLRTWLSTPERYRGDAPTIEAITRPIQV  
<sup>200</sup>AQGRKTS<sup>225</sup>SGTRKPRGLEPRRRKVKT<sup>250</sup>VVYGRRRSKSRD  
<sup>262</sup>RRAPSPQAGSP<sup>250</sup>LPSSSSSHRRSPSPRK

Figure 2

## Nucleic Acid Sequence of Duck Hepatitis B Core Protein

1  
ATGATATCAATGCTTCTAGAGCCTTAGCCAATGTTATGATTTGCCAGATGATTTCTTCCC  
50  
AAAAATTGATGATCTTGTAAAGGATGCGAAGGATGCTTTAGAACCCTTATTGGAGATCAGATT  
100  
CAATAAAGAAACATGTTTAAATTGCAACTCACTTTGTGATCTTATTGAAGACTTCTGGCAA  
150  
ACTACTCAGGGTATGCATGAATAAGCTGAAGCCTTAAGAGCAGTTATACCACCTACTACAAC  
200  
250  
ACCAAGTCCCGCAGGATATCTGATTTCAGCACGAAGAGGCTGAGGAGATTCTCTGGGAGATT  
300  
TATTTAACATCAGGAAGAAAGTAGTTAGTTTCCAACCGGATTATCCTATTACTGCACGA  
350  
400  
ATTCATGCACACCTGAAGCTTATGCAAAGATTAAACGAGGAATCACTGGATAGGGCTAGGAG  
450  
ATTGCTTTGGTGGCATTTACAATTGTTACTGTGGGAGAAGCTAACGTTACTAATTATATT  
500  
CTCGGCTTCGCACCTGGCTATCAACACCTGAGAGATACAGAGGCCGAGATGCCCAACCATTT  
550  
600  
GAAGCAATCACTAGACCAATCCAAGTGGCTCAGGGAGGCAAGAAAAACATCTTCGGGTACTAG  
650  
700  
AAAAACCTCGTGGACTCGAACCTAGAAGAAGAAAGTTAAAAACACAGTTGTCTATGGGAGAA  
750  
GACGTTCAAAGTCCAGGGATAGGAGAGCCCCCTTCACCCCAACGTGCGGGCTCCCTCTCCCG  
786  
CGTAGTTCGAGCAGCCACAGAAGATCTCCCTCGCCTAGGAAA

Figure 3



000000 24656460

Figure 4

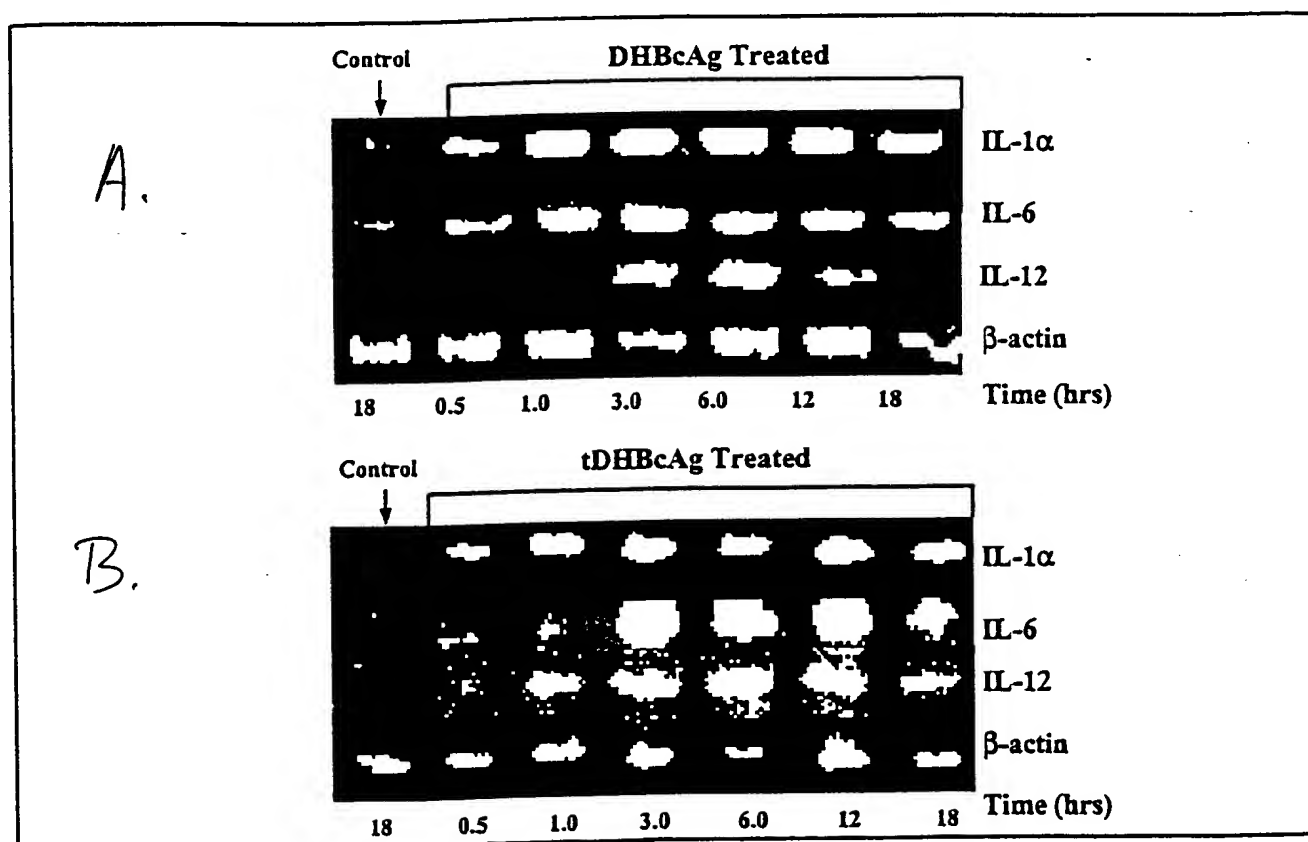
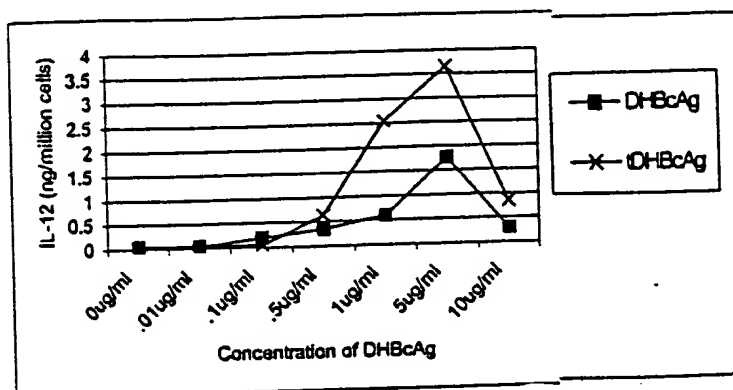


Figure 5

A.



B.

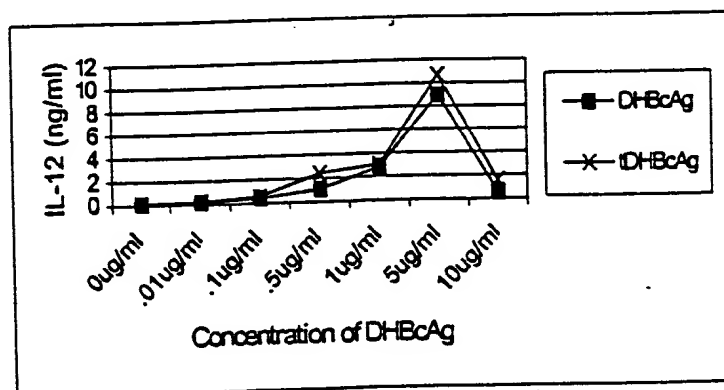


Figure 6

# Bone marrow-derived Dendritic Cell IL-12 p70 Release following 24 hour Stimulation with DHBcAg

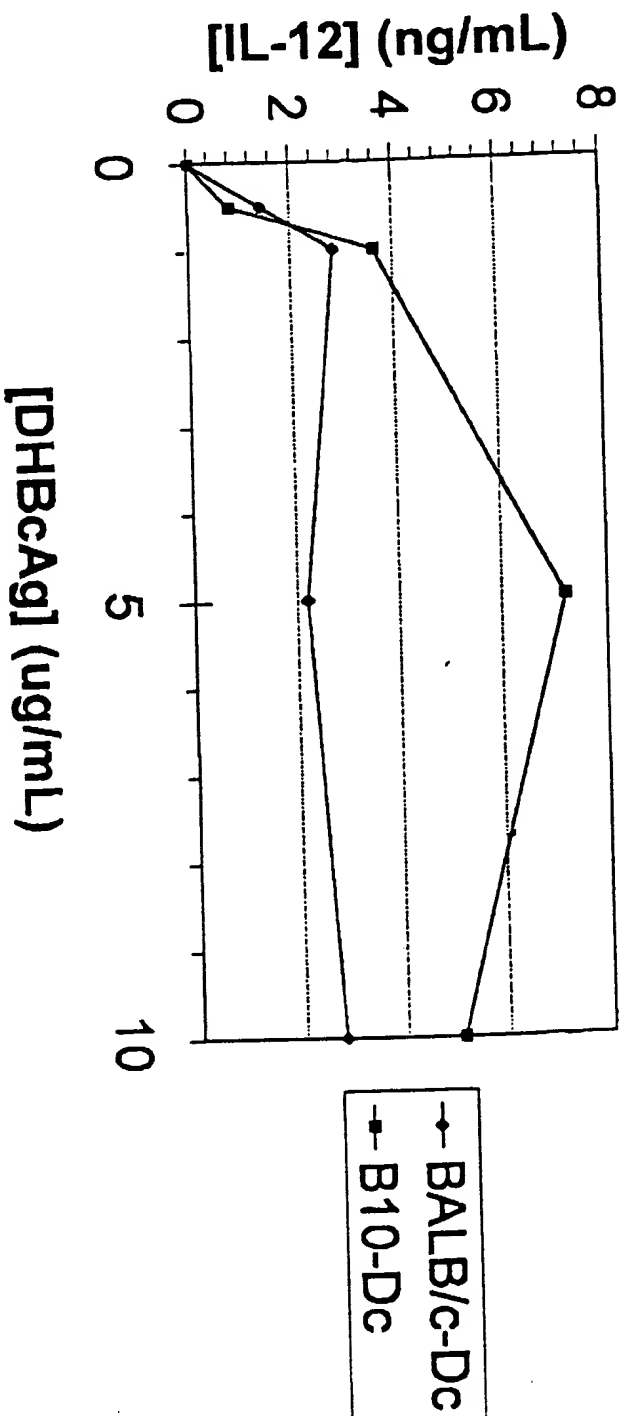


Figure 7

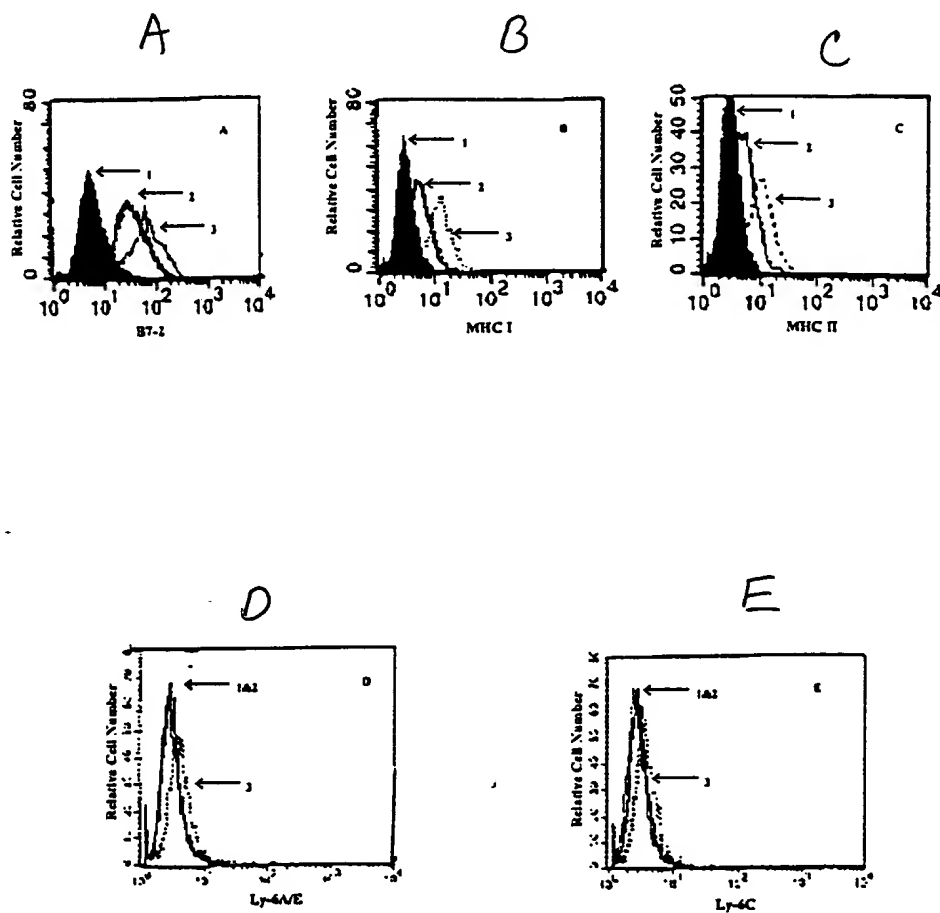
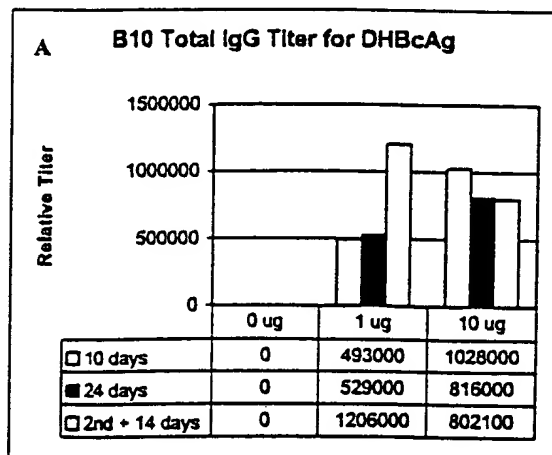


Figure 8

A



B

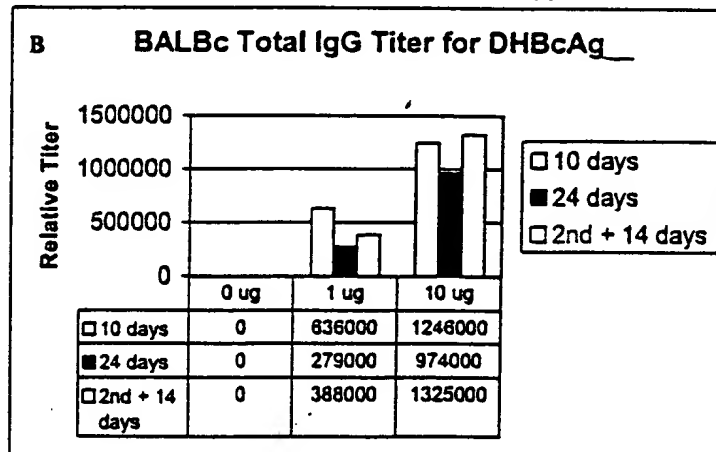
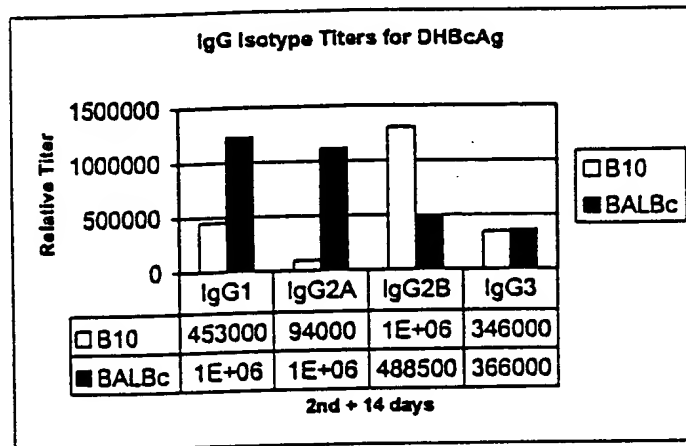
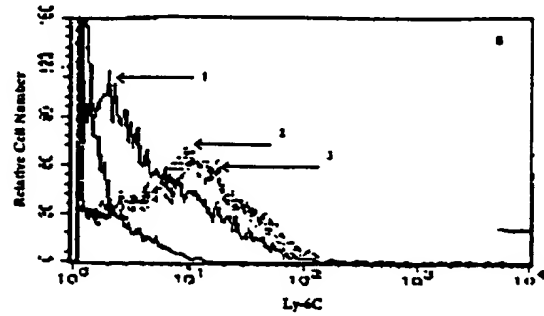




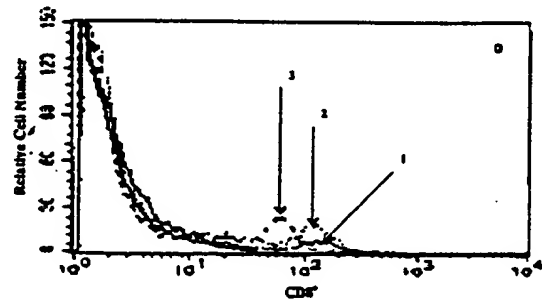
Figure 9



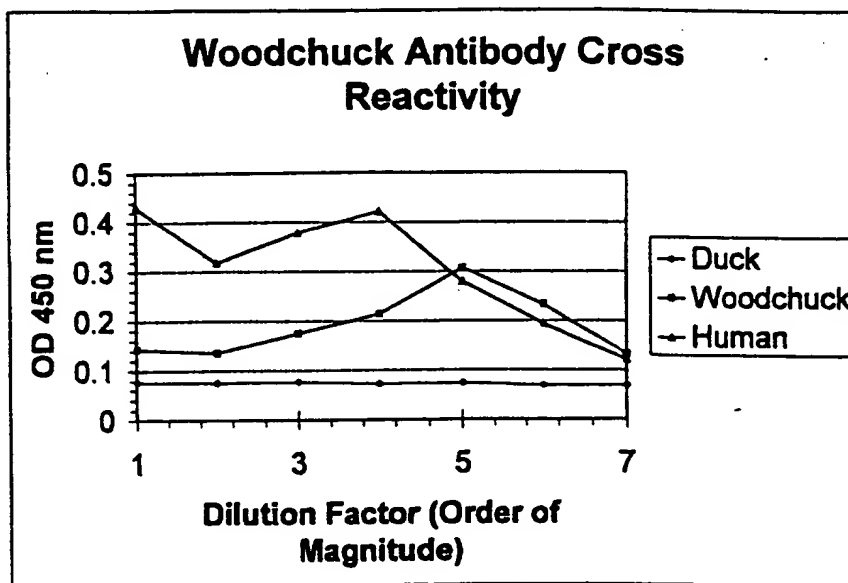
B



D



A



B

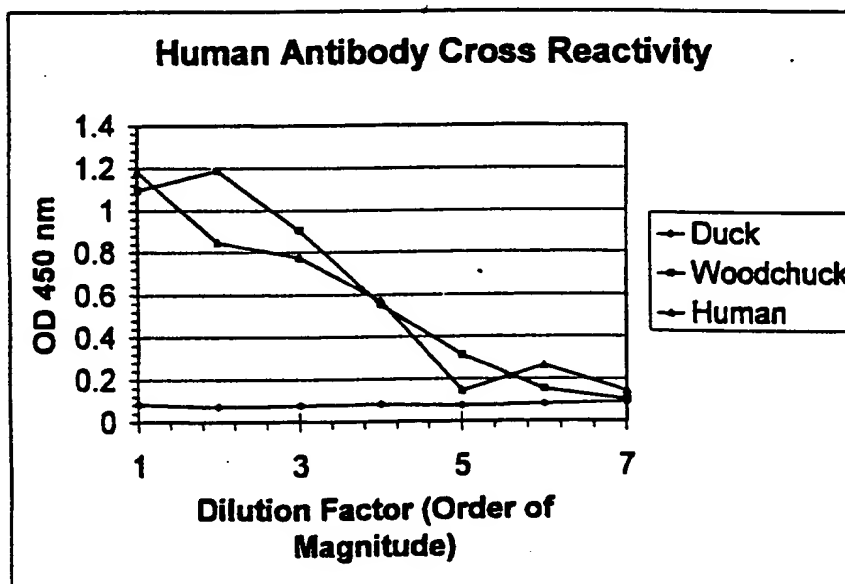
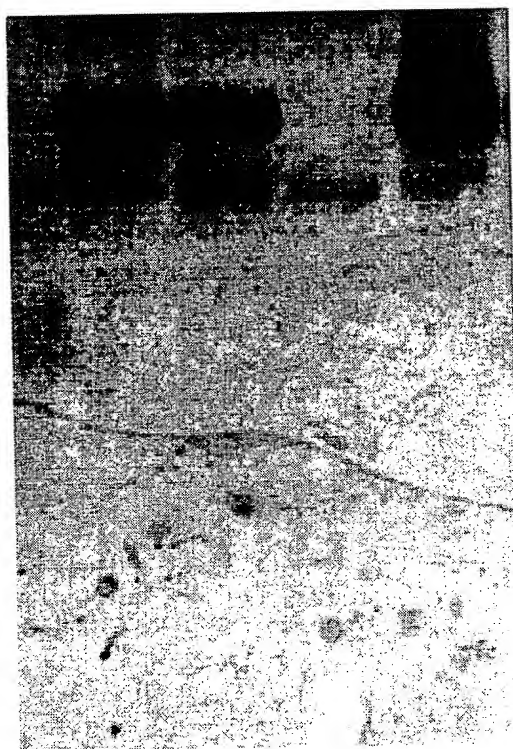


Figure 12.

**1            2            3            4**



### Duck HBcAg

[illegible]

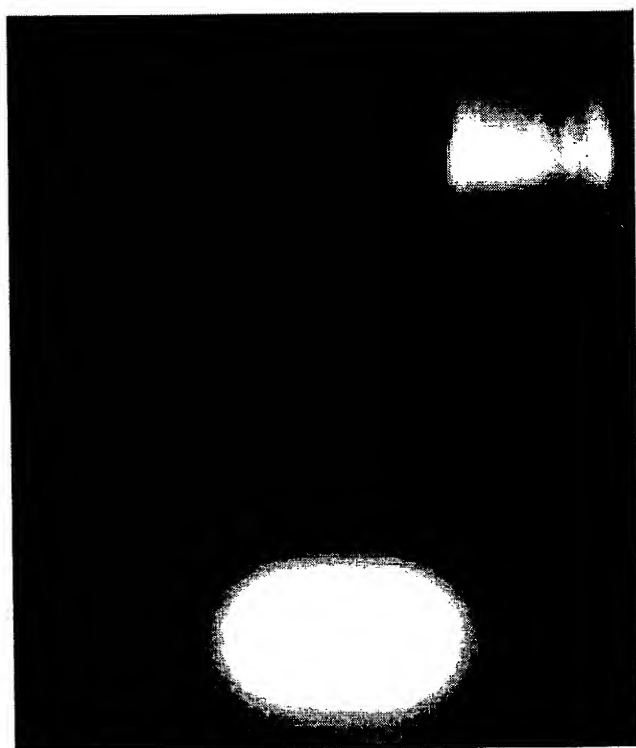
Figure 13

5

[illegible]

Figure 14

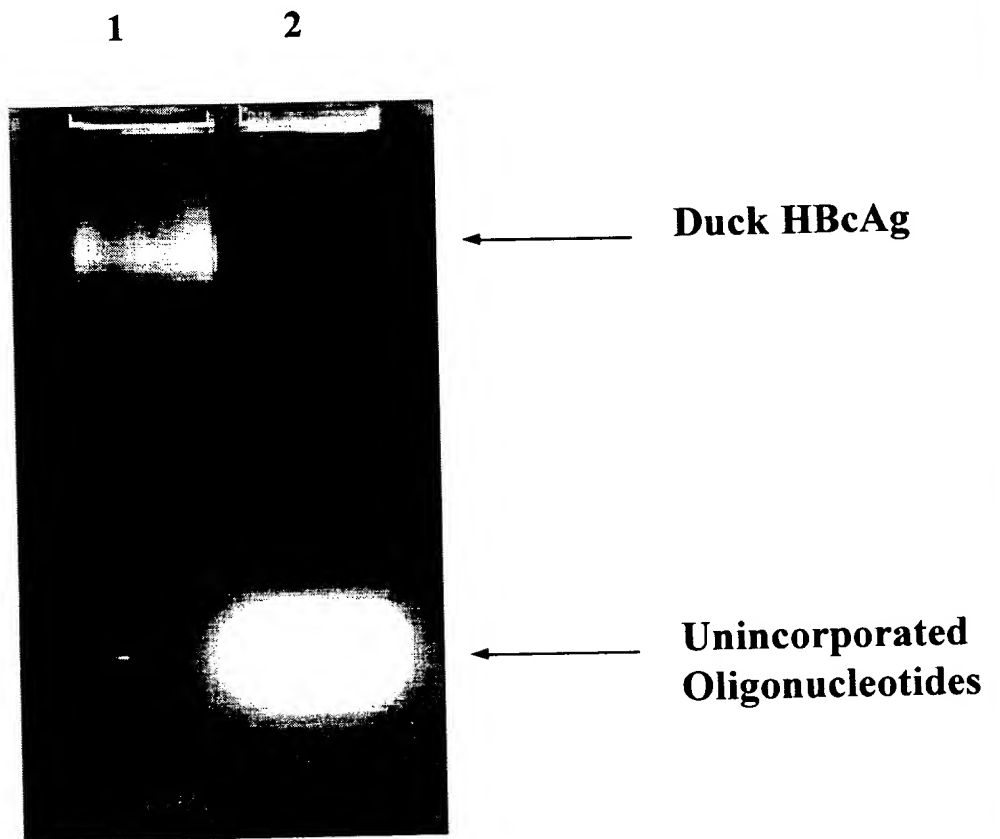
1 2 3



Duck HBcAg

Unincorporated  
Oligonucleotides

Figure 15



002207-41656460

Figure 16

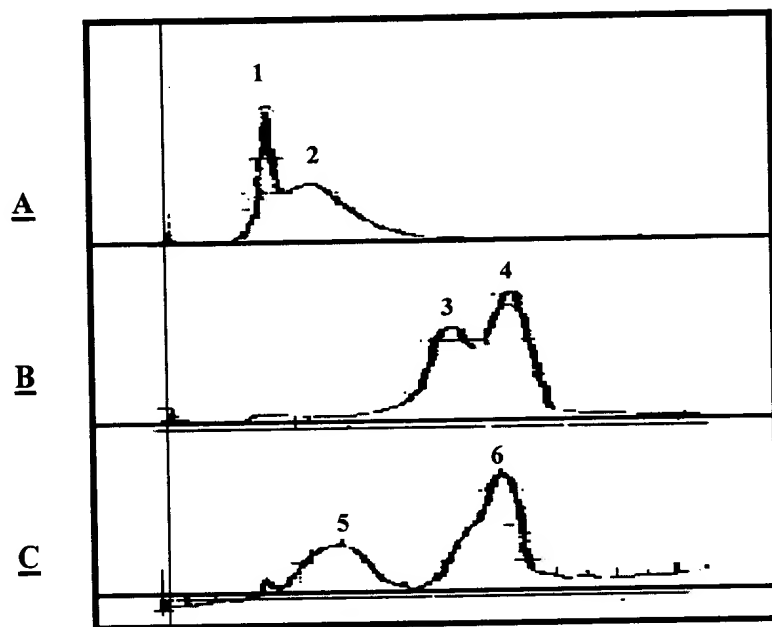




Figure 17

**Amino Acid Sequence of Duck Hepatitis B Core Protein Mutant 1-239**

<sup>1</sup>MDINASRALANVYDL<sup>25</sup>PDDEFPKIDDLVRDAKDAL<sup>50</sup>EPYWR<sup>75</sup>  
SDSIKKHVL<sup>50</sup>IATHEVDLIEDFW<sup>100</sup>QTQGMHEIAEALRAVI<sup>125</sup>  
PPTTPVPAGYL<sup>125</sup>IQH<sup>150</sup>EAE<sup>175</sup>EIP<sup>200</sup>LGDLFKHQEERIVSFQ<sup>225</sup>P  
DYPI<sup>239</sup>TARIHAHLKAYAKINEESLDRARRLLWWHYNCLLW  
GEANVTNYISR<sup>200</sup>LR<sup>239</sup>TWLS<sup>225</sup>TPERYRGRDAP<sup>200</sup>TI<sup>239</sup>EAITRPIQV  
AQQG<sup>200</sup>RK<sup>239</sup>TSSGTRKPRGLEPRRRKVKT<sup>225</sup>VVYGRRRSKSRD  
RRAPS

# Nucleic Acid Sequence of Duck Hepatitis B Core Protein Mutant 1-239

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1      ATG GAT ATC AAT GCT TCT AGA GCC CT TAG CCA ATG TTT ATG ATT TGC CAG ATG ATT CT TCC
50
AAAAA TTG ATG ATC TTG TAAGG GAT GCG AAG GAT GCT TTA GAAC CTT ATT GGAG ATC AGATT
100
CAAT AAAG AAAC ATG TTT TAA TTG CAA CTCA CTT TGT GAT CTT AT TGA AGACT TCT GGC AA
150
ACT ACT CAG GGT ATG CAT GAA ATA GCT GAA GCC CTT AAG AGC AGT TAT ACC ACC TACT ACA AC
200
ACC AGT TCC CGC AGA TAT CTG AT TCA GCAC CAA GAG GCT GAG GAG ATT CCT CTG GAG ATT
250
TAT TTA ACAT CAG GAA GAA AGA TAG TTAG TTCC AAC CGG ATT AT CCT AT TACT GCAC GA
300
ATT CAT GCAC ACC CTG AAAG CTT ATG CAA AGAT TAA CGAG GAAT CACT GGAT AGG GCT AGG AG
350
ATT GCT TTG GTG CAT TTA CAAT TGT TACT GTG GGA GAA GCT AAC GTT ACT AAT TAT ATT
400
CTC GGT TCG CACT TGG CTA TCA ACA CCT GAG AGA TAC AGAG GCC GAG ATG CCCC AAC CAT T
450
GAAG CAAT CACT AGA CCA ATCCA AGT GGC CTC AGG GAG GCG AAAAAA ACAT CTTC GGG TACT AG
500
AAAA CCT CGT GACT CGA ACC TAG AAG AAG AAA GTT AAA ACC ACA GTT GTCT ATGG GAG AA
550
GAC GTT CAA AGT CCA GGA TAG GAG AGC CCT TCA
600
700
718

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Figure 19

**Amino Acid Sequence of Truncated Duck Hepatitis B Core Protein**

1 MDINASRALANVYDL PDDFEPKIDDLVRDAKDALEPYWR 25  
50 SDSIKKHVLIATHEVDLIEDFWQTQGMHEIAEALRAVI 75  
100 PPTTPVPAGYLIQHFEAEFIPLGDLFKHQEERIVSFQ  
125 DYPI TARIHAHLKAYAKINEESLDRARRLLWHYNCLLW 150  
175 GEANVTNYISRRLTWLSTPERYRGRDAPTIEAITRPIQV  
200 AQGGRKTS SGT RKP RGL EP 214

**Nucleic Acid Sequence of Truncated Duck Hepatitis B Core Protein**

1  
ATGATATCAATGCTTCTAGAGCCTTAGCCAATGTTATGATTGCCAGATGATTCTTCCC  
50  
AAAAATTGATGATCTTGTAGGGATGCCAAGGATGCTTTAGAACCCTTATTGGAGATCAGATT  
100  
CAATTAAGAACAATGTTTAAATGCCAACTCACTTTGTGGATCTTATTGAAGACTTCTGGCAA  
150  
ACTACTCAGGGTATGCATGAATAAGCTGAAGCCTTAAGAGCAGTTATACCACCTACTACAAC  
200  
250  
ACCAAGTCCCGCAGGATATCTGATTCAGCACGAAGAGGCTGAGGAGATTCTCTGGGAGATT  
300  
TATTTAAACATCAGGAAGAAAGGATAGTTAGTTCCCAACCGATTATCCTATTACTGCACGA  
350  
400  
ATTCATGCACACCTGAAGCTTATGCAAAGATTAAAGGAATCACTGGATAGGGCTAGGAG  
450  
ATTGCTTTGGTGGCATTACAATTGTTACTGTGGGAGAGAAGCTTAACGTTACTAATTATATT  
500  
CTCGGCTTCGCACTTGGCTATCAACACCTGAGAGATACAGAGGCCGAGATGCCCAACCATTT  
550  
600  
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642  
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